



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest No. 24083
Activity No.: PER20060002

Christopher T. Ditzel
Egan Hub Storage, LLC
Post Office Box 1642
Houston, Texas 77251

RE: Operating permit modification, Egan Gas Storage Facility, Egan Hub Storage, LLC,
Evangeline, Acadia Parish, Louisiana

Dear Mr. Ditzel:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 22nd of October, 2008, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and Agency Interest Number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2007.

Permit No.: 0040-00059-V2

Sincerely,

Chuck Carr Brown, Ph.D.
Assistant Secretary
CCB/DCN
cc: EPA Region 6

ENVIRONMENTAL SERVICES
PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
EGAN HUB STORAGE, LLC / EGAN GAS STORAGE FACILITY
PROPOSED PART 70 AIR OPERATING PERMIT MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on the proposed Part 70 air operating permit modification for Egan Hub Storage, LLC, Post Office Box 1642, Houston, Texas 77251 for the Egan Gas Storage Facility. **The facility is located at 401 Ida Fruge Road, Evangeline, Acadia Parish.**

Egan Hub Storage LLC, Egan Hub Gas Storage Facility compresses pipeline natural gas for storage in the Jennings Salt Dome caverns and delivery on demand from the storage pipelines. The Egan Hub Storage Facility currently operates under Permit No. 0040-00059-V1, issued April 10, 2006.

Egan Hub Storage, LLC requested a Part 70 operating permit modification to increase working capacity of the facility from 24 to 32 billion cubic feet by implementing the Cavern 3 Development Project. Egan Hub Storage also proposed to 1) replace an emergency generator, 2) add a generator fuel gas heater, a turbine fuel gas and high pressure seal gas heater, and 3) increase operating time of the compressors which are limited by two emission caps.

Permitted emissions in tons per year are as follows:

Pollutant	Permitted	Proposed	Change
PM ₁₀	13.59	17.58	+ 3.99
SO ₂	4.52	4.70	+ 0.18
NO _x	186.13	206.26	+ 20.13
CO	57.43	61.13	+ 3.70
VOC, total	88.13	97.50	+ 9.37

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Wednesday, March 28, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed permit, and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at the Acadia Parish Library – Headquarters, located at 1125 N. Parkerson Avenue, Crowley, LA 70526.

Inquiries or requests for additional information regarding this permit action should be directed to Mr. Dan Nguyen, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3075.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 24083, Permit Number 0040-00059-V2, and Activity Number PER20060002.

Publication Date: Wednesday, February 21, 2007.

**AIR PERMIT BRIEFING SHEET
OFFICE OF ENVIRONMENTAL SERVICES
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**EGAN GAS STORAGE FACILITY
AGENCY INTEREST NO. 24083
EGAN HUB STORAGE, LLC
EVANGELINE, ACADIA PARISH, LOUISIANA**

I. Background

Egan Hub Storage, LLC owns and operates a salt dome natural gas storage facility and compressor station, the Egan Gas Storage Facility, located at 401 Ida Fruge Road, Evangeline, LA 70537, under Permit 0040-00059-V1, dated April 10, 2006.

II. Origin

A permit application and Emission Inventory Questionnaire, dated November 28, 2006 as well as additional information dated January 25, 2007 were submitted, requesting a Part 70 operating permit modification.

III. Description

Egan Gas Storage Facility compresses pipeline natural gas for storage in the Jennings Salt Dome caverns and delivery on demand from storage to pipelines. Upon withdrawal, natural gas is filtered, dehydrated, and then injected into a sales pipeline. VOC emissions from the glycol regenerator still column vents are controlled by two thermal oxidizers. Off-gas from the glycol pump flash separators (GPFS) is used as supplemental fuel at the glycol reboilers or destroyed at the thermal oxidizers. Any excess flash gas is vented to the atmosphere. Emissions are from compressors and generators engines, glycol dehydrators, thermal oxidizers, tanks, turbines, heaters, pneumatic pumps, a parts washer, loadings, and fugitives.

Egan Hub Storage proposed to increase working capacity of the facility from 24 to 32 billion cubic feet by implementing the Cavern 3 Development Project. Egan Hub Storage also proposed to 1) replace an emergency generator, 2) add a generator fuel gas heater, a turbine fuel gas and high pressure seal gas heater, and a generator, and 3) consolidate operating limits of all compressor engines into an emission cap. Permitted emission changes in tons per year are as follows:

Pollutant	Permitted	Proposed	Change
PM ₁₀	13.59	17.58	+ 3.99
SO ₂	4.52	4.70	+ 0.18
NO _x	186.13	206.26	+ 20.13
CO	57.43	61.13	+ 3.70
VOC, total	88.13	97.50	+ 9.37

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EVANGELINE, ACADIA PARISH, LOUISIANA**

IV. Type of Review

This application was reviewed for compliance with the Louisiana Part 70 operating permit program, Louisiana Air Quality Regulations, NESHAP, and NSPS. PSD does not apply. The facility is a minor source of toxic air pollutants (TAP). Formaldehyde emissions are from natural gas fired engines and turbines and are exempt from the Louisiana Air Toxic Regulations.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the proposed permit was published in *The Advocate*, (Baton Rouge, LA) and in the XXXX, (XXX, LA) on XXX, 2007. The notice was also mailed to individuals and organizations on the mailing list of the facility and published in the Office of Environmental Services Public Notice Mailing List on XXX, 2007. The permit application, the proposed permit, and the Statement of Basis were submitted to the XXX Branch, Acadia Parish Library. The proposed permit and the Statement of Basis were submitted to United States Environmental Protection Agency (US EPA) Region 6. All comment will be considered prior to a permit decision.

VII. Effects on Ambient Air

Dispersion Model Used: None

VIII. General Condition XVII Activities

Description	Emissions (TPY)
(None)	

**AIR PERMIT BRIEFING SHEET
OFFICE OF ENVIRONMENTAL SERVICES
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**EGAN GAS STORAGE FACILITY
AGENCY INTEREST NO. 24083
EGAN HUB STORAGE, LLC
EVANGELINE, ACADIA PARISH, LOUISIANA**

IX. Insignificant Activities (LAC 33:III.501.B.5)

ID No.:	Description	Capacity	Citation
T-1	Engine Oil Tank	5000 gallons	A.3
T-2	Compressor Oil Tank	4000 gallons	A.3
T-3	Lubricating Oil Tank	1600 gallons	A.3
T-4	Diesel Tank	8800 gallons	A.3
T-6	Engine Coolant Tank	4000 gallons	A.3
T-9A	Fresh Water Tank	210,000 gallons	C
T-9B	Fresh Water Tank	210,000 gallons	C
T-10	Triethylene Glycol Tank	8800 gallons	A.3
T-11	Diesel Tank	2000 gallons	A.3
SHTR-01	Space Heater	0.13 MM BTU/hr	A.5
FGH-1	Turbine Fuel Gas & HP Seal Gas Heater (EG-FGH1)	0.43 MM BTU/hr	A.5
FGH-2	Generator Fuel Gas Heater (EG-FGH2)	0.02 MM BTU/hr	A.5

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**EGAN GAS STORAGE FACILITY
AGENCY INTEREST NO. 24083
EGAN HUB STORAGE, LLC
EVANGELINE, ACADIA PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.					LAC 33:III:Chapter											
		2103	2104	2107	2111	2121	2113	2115	2116	5▲	9	11	13	15	51*	52	56	59
EQT001	DG-1 - Emergency Generator Engine (EG-035)														1	1	1	
EQT002	GC-1A/B - Gas Compressor Engine (EG-100)														1	1	1	
EQT003	GC-2A/B - Gas Compressor Engine (EG-200)														1	1	1	
EQT004	GC-3A/B - Gas Compressor Engine (EG-300)														1	1	1	
EQT005	GC-4A/B - Gas Compressor Engine (EG-400)														1	1	1	
EQT006	GC-5A/B - Gas Compressor Engine (EG-500)														1	1	1	
EQT007	GC-6A/B - Gas Compressor Engine (EG-600)														1	1	1	
EQT008	GC-7A/B - Gas Compressor Engine (EG-700)														1	1	1	
EQT009	GG-1 - Emergency Generator Engine (EG-036)														1	1	1	
EQT010	GG-2 - Emergency Generator Engine (EG-037)														1	1	1	
EQT011	GG-3 - Emergency Generator Engine (EG-038)														1	1	1	
EQT012	GG-4 - Emergency Generator Engine (EG-039)														1	1	1	
EQT013	GG-5 - Emergency Generator Engine (EG-040)														1	1	1	
EQT014	R-1 - Dehy Reboiler (RB-01)														1	1	1	
EQT015	R-2 - Dehy Reboiler (RB-02)														1	1	1	
EQT018	MIP-2 - Methanol Injection Pump														1	1	1	
EQT019	MIP-3 - Methanol Injection Pump														1	1	1	
EQT020	MIP-4 - Methanol Injection Pump														1	1	1	
EQT021	MIP-5 - Methanol Injection Pump														1	1	1	
EQT022	T-5 - Methanol Storage Tank														1			

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		2103	2104	2107	2111	2121	2113	2115	2116	5▲	9	11	13	15	51*	52	56	59
EQT023	T-7 - Oily Water Storage Tank																	
EQT024	T-8A - Brine Storage Tank																	
EQT025	T-8B - Brine Storage Tank																	
EQT026	T-12 - Methanol/Water Mixture Storage Tank	1																
EQT027	F-1A - Oily Water Truck Loading Area (TL1)																	
EQT028	F-1B - Lubricating Oil Truck Loading Area (TL2)																	
EQT029	F-1C - Methanol/Water Mixture Truck Loading Area (TL3)																	
EQT034	F-1D - Pipeline Liquids Truck Loading Area (TL4)																	
EQT035	FT-1 - Dehydration Unit No. 1 Flash Tank																	
EQT036	FT-2 - Dehydration Unit No. 2 Flash Tank																	
EQT040	PW-1 - Parts Washer																	
EQT041	SV-1 - Dehydration Unit No. 1 Regenerator Still Vent														1	2		
EQT042	SV-2 - Dehydration Unit No. 2 Regenerator Still Vent														1	2		
EQT043	T-13 - Pipeline Liquids Storage Tank														1			
EQT044	T-8C - Brine Storage Tank																	
EQT045	T-8D - Brine Storage Tank																	
EQT046	TO-1 - Dehy Thermal Oxidizer (TO-01)														1	2		
EQT047	TO-2 - Dehy Thermal Oxidizer (TO-02)														1	2		
EQT048	V-1 - Gas Release Events																	

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		2103	2104	2107	2111	2121	2113	2115	2116	5▲	9	11	13	15	51*	52	56	59
EQT049	GC-8 - Gas-Fired Turbine (EG-800)														1	1	1	
EQT050	GC-9 - Gas-Fired Turbine (EG-900)														1	1	1	
EQT053	GG-6 - Emergency Generator Engine (EG-041)														1	1	1	
FUG001	F-2 - Piping Component Fugitives							1	3									
GRP003	GC-CAP - Compressor Engine Cap																	
GRP005	Egan Gas Storage Facility		3				1			1		1		1	2		1	

KEY TO MATRIX

- 1 -The regulations have applicable requirements which apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
Blank - The regulations clearly do not apply to this type of emission source.

- * The regulations indicated above are State Only regulations.
- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

EGAN GAS STORAGE FACILITY

AGENCY INTEREST NO. 24083

EGAN HUB STORAGE, LLC

EVANGELINE, ACADIA PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63						40 CFR						
		A	Db	K	Kb	GG	KKKK	A	J	FF	A	HHH	YYYY	ZZZZZ	64	68	72									
EQT001	DG-1 - Emergency Generator Engine (EG-035)																									
EQT002	GC-1A/B - Gas Compressor Engine (EG-100)																									
EQT003	GC-2A/B - Gas Compressor Engine (EG-200)																									
EQT004	GC-3A/B - Gas Compressor Engine (EG-300)																									
EQT005	GC-4A/B - Gas Compressor Engine (EG-400)																									
EQT006	GC-5A/B - Gas Compressor Engine (EG-500)																									
EQT007	GC-6A/B - Gas Compressor Engine (EG-600)																									
EQT008	GC-7A/B - Gas Compressor Engine (EG-700)																									
EQT009	GG-1 - Emergency Generator Engine (EG-036)																									
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EQT018	MIP-2 - Methanol Injection Pump																									
EQT019	MIP-3 - Methanol Injection Pump																									
EQT020	MIP-4 - Methanol Injection Pump																									
EQT021	MIP-5 - Methanol Injection Pump																									
EQT022	T-5 - Methanol Storage Tank																									

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EVANGELINE, ACADIA PARISH, LOUISIANA**

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ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63						40 CFR						
		A	Db	K	Kb	GG	KKKK	A	J	FF	A	HHH	YYYY	ZZZZ	64	68	72									
EQT023	T-7 - Oily Water Storage Tank							3																		
EQT024	T-8A - Brine Storage Tank							3																		
EQT025	T-8B - Brine Storage Tank							3																		
EQT026	T-12 - Methanol/Water Mixture Storage Tank							3																		
EQT027	F-1A - Oily Water Truck Loading Area (TL1)																									
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EQT043	T-13 - Pipeline Liquids Storage Tank																									
EQT044	T-8C - Brine Storage Tank							3																		
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EQT046	TO-1 - Dehy Thermal Oxidizer (TO-01)																									
EQT047	TO-2 - Dehy Thermal Oxidizer (TO-02)																									
EQT048	V-1 - Gas Release Events																									
EQT049	GC-8 - Gas-Fired Turbine (EG-800)							3	1																	3

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EVANGELINE, ACADIA PARISH, LOUISIANA**

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63						40 CFR					
		A	Db	K	Kb	GG	KKKK	A	J	FF	A	HHH	YYYY	ZZZZZ	64	68	72								
EOT050	GC-9 - Gas-Fired Turbine (EG-900)							3	1						3										
EQT053	GG-6 – Emergency Generator Engine (EG-041)															3									
FUG001	F-2 - Piping Component Fugitives																								
GRP003	GC-CAP - Compressor Engine Cap																								
GRP005	Egan Gas Storage Facility																								

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
Blank - The regulations clearly do not apply to this type of emission source.

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AGENCY INTEREST NO. 24083
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EVANGELINE, ACADIA PARISH, LOUISIANA**

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status:	Citation	Explanation
EQT001 thru EQT013 EQT053	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO ₂ emissions < 250 tons/year
	LAC 33:III.1511 CEM for SO ₂	Exempt	LAC 33:III.1511.A	SO ₂ emissions < 100 tons/year
	NESHAP Subpart ZZZZ for IC engines	Does not apply	40 CFR 63.6590(b)(3) 40 CFR 63.6590(a)	Existing four strokes lean burn (4SLB) engines or < 500 horsepower
EQT014, EQT015	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO ₂ emissions < 250 tons/year
	LAC 33:III.1511 CEM for SO ₂	Exempt	LAC 33:III.1511.A	SO ₂ emissions < 100 tons/year
EQT022, EQT023, EQT026 EQT024, EQT025, EQT044 EQT045	40 CFR 60 Subpart Kb 40 CFR 60 Subpart Kb 40 CFR 60 Subpart Kb	Does not apply Does not apply Does not apply	40 CFR 60.110b(a) 40 CFR 60.110b(b)	Volume < 20,000 gallons Vapor Pressure < 0.51 psia
EQT027, EQT028, EQT034	LAC 33:III.2107	Does not apply	LAC 33:III.2107	Vapor Pressure < 1.5 psia or throughput < 20,000 gallons/day
EQT035, EQT036, EQT041 EQT042	40 CFR 63.1275, 63.1283, 63.1284, and 63.1285	Exempt	40 CFR 63.1274(d)(2)	Benzene emissions <1.0 tons/year
EQT046, EQT047	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO ₂ emissions < 250 tons/year
	LAC 33:III.1511 CEM for SO ₂	Exempt	LAC 33:III.1511.A	SO ₂ emissions < 100 tons/year
	40 CFR 63.1275, 63.1283, 63.1284, and 63.1285	Exempt	40 CFR 63.1274(d)(2)	Benzene emissions <1.0 tons/year
EQT049, EQT050	LAC 33:III.1503.C. Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C	SO ₂ emissions < 250 tons/year
	LAC 33:III.1511 CEM for SO ₂	Exempt	LAC 33:III.1511.A	SO ₂ emissions < 100 tons/year
	40 CFR 60 Subpart GG	Exempt	40 CFR 60.4305(b)	Subject to 40 CFR 60 Subpart KKKK
	40 CFR 63 Subpart YYYY	Does not apply	40 CFR 63.6085	The facility is not classified as a major source of HAP at the time of the construction and operation of the turbines

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

EGAN GAS STORAGE FACILITY
AGENCY INTEREST NO. 24083
EGAN HUB STORAGE, LLC
EVANGELINE, ACADIA PARISH, LOUISIANA

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
FUG001	LAC 33:III.2121 – Fugitive Emission Control	Does not apply	LAC 33:III.2121.A	Not an affected facility
GRP005	LAC 33:III.2104 – Crude Oil and Condensate	Does not apply	LAC 33:III.2104.A	VOC emissions from flash gas < 100 TPY
	LAC 33:III.Chapter 51	Exempt	LAC 33:III.5105.B.3	TAP emissions are from combustion devices that burn virgin fossil fuels
	LAC 33:III.Chapter 59 40 CFR 68	Does not apply	LAC 33:III.5901	Facility does not store or process any referenced list substance greater than the threshold amounts.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 - 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 - 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];

40 CFR PART 70 GENERAL CONDITIONS

- 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 - 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit. [Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
- 1. the date, place as defined in the permit, and time of sampling or measurements;
 - 2. the date(s) analyses were performed;
 - 3. the company or entity that performed the analyses;
 - 4. the analytical techniques or methods used;
 - 5. the results of such analyses; and
 - 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year.

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[LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

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- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;

40 CFR PART 70 GENERAL CONDITIONS

- 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 - 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 - 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 - 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 - 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated November 28, 2006 as well as additional information dated January 25, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
 - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 - 1. Report by June 30 to cover January through March
 - 2. Report by September 30 to cover April through June
 - 3. Report by December 31 to cover July through September
 - 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 24083 - Egan Hub Storage Facility
 Activity Number: PFR20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 001 CG-1	0.07	0.07	0.02	0.78	0.86	0.20	2.27	2.50	0.57	0.38	0.42	0.10	0.11	0.12	0.03
EQT 002 GC-1A/B	0.23	0.24	1.01	0.014	0.014	0.06		7.97				0.80			3.62
EQT 003 GC-2A/B	0.23	0.24	1.01	0.014	0.014	0.06		7.97				0.80			3.62
EQT 004 GC-3A/B	0.33	0.35	1.46	0.02	0.02	0.09		7.20				1.29			2.46
EQT 005 GC-4A/B	0.33	0.35	1.46	0.02	0.02	0.09		7.20				1.29			2.46
EQT 006 GC-5A/B	0.33	0.35	1.46	0.02	0.02	0.09		7.20				1.29			2.46
EQT 007 GC-6A/B	0.33	0.35	1.46	0.02	0.02	0.09		7.20				1.29			2.46
EQT 008 GC-7A/B	0.33	0.35	1.46	0.02	0.02	0.09		7.20				1.29			2.46
EQT 009 GG-1	0.002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.20	0.21	0.05	0.32	0.34	0.08	0.003	0.003	< 0.001
EQT 010 GG-2	0.002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.20	0.21	0.05	0.32	0.34	0.08	0.003	0.003	< 0.001
EQT 011 GG-3	0.002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.20	0.21	0.05	0.32	0.34	0.08	0.003	0.003	< 0.001
EQT 012 GG-4	0.002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.20	0.21	0.05	0.32	0.34	0.08	0.003	0.003	< 0.001
EQT 013 GG-5	0.002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.20	0.21	0.05	0.32	0.34	0.08	0.003	0.003	< 0.001
EQT 014 R-1	0.02	0.02	0.07	0.001	0.001	0.005	0.20	0.21	0.87	0.17	0.18	0.73	0.10	0.11	0.44
EQT 015 R-2	0.04	0.05	0.19	0.004	0.004	0.02	0.58	0.61	2.52	0.48	0.51	2.12	0.28	0.30	1.23
EQT 018 MIP-2													0.14	0.14	0.04
EQT 019 MIP-3													0.14	0.14	0.04
EQT 020 MIP-4													0.14	0.14	0.04

EMISSION RATES FOR CRITERIA POLLUTANTS

All ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 021 MP-5													0.14	0.14	0.04
EQT 022 T-5													0.10	20.05	0.42
EQT 023 T-7													0.002	0.62	0.01
EQT 024 T-8A													< 0.001	< 0.001	0.002
EQT 025 T-8B													< 0.001	< 0.001	0.002
EQT 026 T-12													0.79	22.38	3.47
EQT 027 F-1A													< 0.01	1.17	< 0.01
EQT 028 F-1B													< 0.01	0.13	< 0.01
EQT 029 F-1C													< 0.01	14.76	0.02
EQT 034 F-1D													0.04	91.41	0.17
EQT 040 PV-1													0.09	2.25	0.41
EQT 043 T-13													0.67	137.82	2.95
EQT 044 T-8C													< 0.001	< 0.001	0.002
EQT 045 T-8D													< 0.001	< 0.001	0.002
EQT 046 TO-1	0.015	0.06	0.001	0.005	0.14	0.60	0.07	0.07	0.31	1.01	1.06	4.44			
EQT 047 TO-2	0.06	0.06	0.004	0.005	0.02	0.52	0.54	2.27	0.25	0.26	1.09	0.41	0.43	1.78	
EQT 048 V-1														2.82	341.12
EQT 049 GC-8	0.87	3.67	3.82	0.45	1.89	1.97	6.52	11.67	28.57	3.84	217.75	16.80	0.44	1.90	1.92

EMISSION RATES FOR CRITERIA POLLUTANTS

AID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

PM ₁₀						SO ₂						NOx						CO						VOC					
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year					
EQT 050 GC-9	0.87	3.67	3.82	0.45	1.89	1.97	6.52	11.67	28.57	3.84	217.75	16.80	0.44	1.90	1.92														
EQT 053 GS-6	0.08	0.08	0.02	0.01	0.01 <	0.01	3.88	4.08	0.97	3.40	3.57	0.85	1.46	1.53	0.36														
FUG 001 F-2																													
GRP 003 GC-CAP									32.16	140.87	12.25	53.65	12.20																

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 17.58 tons/yr
 SO₂: 4.70 tons/yr
 NOx: 206.26 tons/yr
 CO: 61.13 tons/yr
 VOC: 97.50 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

All phases																			
1,3-Butadiene				2,2,4-Trimethylpentane				2-Methyl/naphthalene				Acetaldehyde				Acrolein			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 001 DG-1	< 0.001	< 0.001	< 0.001										0.002	0.002	< 0.01	< 0.001	< 0.001	< 0.001	
EQT 002 GC-1A/B	0.008		0.008			0.008			0.001			0.026						0.063	
EQT 003 GC-2A/B	0.008		0.008			0.008			0.001			0.026						0.063	
EQT 004 GC-3A/B	0.006		0.006			0.005			0.001			0.017						0.043	
EQT 005 GC-4A/B	0.006		0.006			0.005			0.001			0.017						0.043	
EQT 006 GC-5A/B	0.006		0.006			0.005			0.001			0.017						0.043	
EQT 007 GC-6A/B	0.006		0.006			0.005			0.001			0.017						0.043	
EQT 008 GC-7A/B	0.006		0.006			0.005			0.001			0.017						0.043	
EQT 009 GG-1										< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 010 GG-2										< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 011 GG-3										< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 012 GG-4										< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 013 GG-5										< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 014 R1				< 0.001	< 0.001	0.001													
EQT 015 R2				0.001	0.001	0.002													
EQT 018 MP-2																			
EQT 019 MP-3																			
EQT 020 MP-4																			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

		Benzene			Ethyl benzene			Formaldehyde			Methanol			Naphthalene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 001 DG-1	0.003	< 0.003	0.01	0.001		0.003	0.004	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
EQT 002 GC-1A/B		0.014			0.001			0.162		0.008						0.002
EQT 003 GC-2A/B		0.014			0.001			0.162		0.008						0.002
EQT 004 GC-3A/B		0.009			0.001			0.110		0.005						0.002
EQT 005 GC-4A/B		0.009			0.001			0.110		0.005						0.002
EQT 006 GC-5A/B		0.009			0.001			0.110		0.005						0.002
EQT 007 GC-6A/B		0.009			0.001			0.110		0.005						0.002
EQT 008 GC-7A/B		0.009			0.001			0.110		0.005						0.002
EQT 009 G-1	< 0.001	< 0.001	< 0.001				0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 010 G-2	< 0.001	< 0.001	< 0.001				0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 011 G-3	< 0.001	< 0.001	< 0.001				0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 012 G-4	< 0.001	< 0.001	< 0.001				0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 013 G-5	< 0.001	< 0.001	< 0.001				0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
EQT 014 R-1	0.002	0.002	0.009	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	
EQT 015 R-2	0.005	0.005	0.020	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.001	0.002	0.001	0.001	0.001	0.004		
EQT 018 MP-2	0.001	0.001	< 0.001													
EQT 019 MP-3	0.001	0.001	< 0.001													
EQT 020 MP-4	0.001	0.001	< 0.001													

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-000059-V2
 Air - Title V Regular Permit Major Mod

All phases

Subject Item	Polynuclear Aromatic Hydrocarbons			Propylene oxide			Toluene			Xylylene (mixed isomers)			n-Hexane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 001 Dg-1	0.001	< 0.001					0.001	< 0.01	0.001	0.001	< 0.01	0.001	< 0.01	0.001	
EQT 002 GC-1A/B		0.001						0.013			0.006				0.034
EQT 003 GC-2A/B		0.001						0.013			0.006				0.034
EQT 004 GC-3A/B		0.001						0.009			0.004				0.023
EQT 005 GC-4A/B		0.001						0.009			0.004				0.023
EQT 006 GC-5A/B		0.001						0.009			0.004				0.023
EQT 007 GC-5A/B		0.001						0.009			0.004				0.023
EQT 008 GC-7A/B		0.001						0.009			0.004				0.023
EQT 009 Gg-1															
EQT 010 Gg-2															
EQT 011 Gg-3															
EQT 012 Gg-4															
EQT 013 Gg-5															
EQT 014 R-1							0.001	0.003	< 0.001	< 0.001	0.001	0.011	0.012	0.049	
EQT 015 R-2							0.002	0.002	< 0.001	< 0.001	0.001	0.029	0.030	0.127	
EQT 018 MIP-2							0.001	0.001				0.007	0.007	0.002	
EQT 019 MIP-3							0.001	0.001				0.007	0.007	0.002	
EQT 020 MIP-4							0.001	0.001				0.007	0.007	0.002	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0440-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

All phases		1,3-Butadiene			2,2,4-Trimethylpentane			2-Methyl/naphthalene			Acetaldehyde			Acrolein		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 021 Mn-S																
EQT 022 T-5																
EQT 024 T-BA																
EQT 025 T-8B																
EQT 026 T-12																
EQT 029 F-1C																
EQT 034 F-1D																
EQT 043 T-13																
EQT 044 T-8C																
EQT 045 T-8D																
EQT 046 T-0-1				0.001		0.001				0.002						
EQT 047 T-0-2				<	0.001	<	0.001		0.001							
EQT 048 V-1																
EQT 049 G-C-8	<	0.001	<	0.001	<	0.001				0.001		0.004		0.004		0.002
EQT 050 G-C-9	<	0.001	<	0.001	<	0.001				0.001		0.004		0.004		0.002
EQT 053 G-G-6										0.001		0.004		0.004		0.002
FUG 001 F-2							0.001	<	0.01							
GRP 003 GC-CAP	0.028		0.121	0.03			0.11	0.01		0.02	0.17		0.73	0.213		0.931

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

Benzene		Ethyl benzene		Formaldehyde		Methanol		Naphthalene	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 021 MP-5	0.001	0.001	< 0.001						
EQT 022 T-5							0.095	20.050	0.420
EQT 024 T-8A	< 0.001	< 0.001	< 0.001						
EQT 025 T-8B	< 0.001	< 0.001	< 0.001						
EQT 026 T-12 F-1C	0.015	0.441	0.066				0.089	19.581	0.391
EQT 029							0.01	14.76	0.02
EQT 034 F-10	< 0.01	1.073	< 0.01						
EQT 043 T-13	0.008	1.618	0.036						
EQT 044 T-8C	< 0.001	< 0.001	< 0.001						
EQT 045 T-8D	< 0.001	< 0.001	< 0.001						
EQT 046 T-1	0.171	0.180	0.751	0.011	0.047	< 0.001	< 0.001	0.609	0.640
EQT 047 T-2	0.061	0.064	0.266	0.004	0.004	0.015	< 0.001	0.206	0.216
EQT 048 V-1	0.011	1.345	0.022	< 0.001	0.086	0.001			0.903
EQT 049 GC-8	0.003	0.011	0.011	0.007	0.029	0.030	0.015	0.064	0.064
EQT 050 GC-9	0.003	0.011	0.011	0.007	0.029	0.030	0.015	0.064	0.064
EQT 053 GC-6	0.01	0.01	< 0.01	< 0.01	< 0.01	0.01	0.65	0.69	0.16
FUG 001 F-2	0.02	0.03	0.09	0.001	0.001	< 0.01		0.82	0.98
GRP 003 GC-CAP	0.05		0.20	0.01		0.02	1.05	4.59	0.05
								0.22	0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

All ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

All phases

Polynuclear Aromatic Hydrocarbons										Propylene oxide				Toluene				Xylene (mixed isomers)				n-Hexane			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year				
EQT 021 MLP-5							0.001	0.001	< 0.001									0.007	0.007	0.002					
EQT 022 T-5																									
EQT 024 T-8A							< 0.001	< 0.001	< 0.001									< 0.001	< 0.001	< 0.001					
EQT 025 T-8B							< 0.001	< 0.001	< 0.001									< 0.001	< 0.001	< 0.001					
EQT 026 T-12							0.005	0.136	0.020				0.019	0.003	0.078	0.078	0.294	0.340							
EQT 029 F-1C																									
EQT 034 F-1D							< 0.01	0.433	< 0.01				0.01	0.109	< 0.01	0.01	< 0.01	0.01	2.216	< 0.01					
EQT 043 T-13							0.003	0.653	0.014				0.001	0.164	0.003	0.029	0.341	0.127							
EQT 044 T-8C							< 0.001	< 0.001	< 0.001				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001							
EQT 045 T-8D							< 0.001	< 0.001	< 0.001				< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001							
EQT 046 TO-1							0.126	0.132	0.551				0.069	0.073	0.303	0.017	0.018	0.018	0.076						
EQT 047 TO-2							0.043	0.045	0.187				0.022	0.023	0.095	0.009	0.010	0.010	0.041						
EQT 048 V-1							0.011	1.345	0.022				0.003	0.430	0.007	0.152	18.375	0.304							
EQT 049 GC-8	0.001	0.002	0.002	0.006	0.026	0.027	0.027	0.118	0.119	0.013			0.058	0.059											
EQT 050 GC-9	0.001	0.002	0.002	0.006	0.026	0.027	0.027	0.118	0.119	0.013			0.058	0.059											
EQT 053 GG-6										0.01	< 0.01		< 0.01	< 0.01											
FUG 001 F-2										0.03	0.03	0.11	0.02	0.02	0.08	0.07	0.08	0.08	0.28						
GRP 003 GC-CAP	0.003		0.012				0.04		0.18	0.02				0.08	0.12			0.50							

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

All phases

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,3-Butadiene: 0.120 tons/yr
2,2,4-Trimethylpentane: 0.13 tons/yr
2-Methylnaphthalene: 0.020 tons/yr
 Acetaldehyde: 0.39 tons/yr
 Acrolein: 0.924 tons/yr
Benzene: 1.47 tons/yr
Ethyl benzene: 0.14 tons/yr
 Formaldehyde: 2.66 tons/yr
 Methanol: 8.10 tons/yr
n-Hexane: 1.84 tons/yr
Naphthalene: 0.064 tons/yr
Polyynuclear Aromatic Hydrocarbons: 0.018 tons/yr
 Propylene oxide: 0.054 tons/yr
Toluene: 1.34 tons/yr
Xylene (mixed isomers): 0.70 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS**AI ID: 24083 - Egan Hub Storage Facility****Activity Number: PER20060002****Permit Number: 0040-00059-V2****AIR - Title V Regular Permit Major Mod****EQT001 DG-1 - Emergency Generator Engine (EG-035)**

- 1 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: Six-minute average
- 2 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT002 GC-1A/B - Gas Compressor Engine (EG-100)

- 3 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
- 4 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 5 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 6 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 7 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Initial startup test to be performed on at least one of the two Waukesha engines, Emission Points GC-1A/B and GC-2A/B. [LAC 33:III.501.C.6]
- 8 Stack gas concentration: Oxygen monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- 9 Stack gas concentration: VOC, Total monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- 10 Stack gas concentration: Carbon monoxide monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- 11 Stack gas concentration: Nitrogen oxides monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- 12 Equipment/operational data recordkeeping by electronic or hard copy quarterly. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during quarterly testing. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

EQR002 GC-1A/B - Gas Compressor Engine (EG-100)

- 13 Consumption of Fuel monitored by metering system continuously. [LAC 33:III.501.C.6]
- 14 Which Months: All Year Statistical Basis: Monthly total
Shall calculate NOX, CO, and VOC emissions from the engine monthly, based on the actual fuel consumption. Records of monthly fuel consumption and monthly NOX, CO, and VOC emissions shall be maintained on site and available for LDEQ inspection. [LAC 33:III.501.C.6]
- 15 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within one of the following: +/- 0.75 of the temperature being measured expressed in C; or +/- 2.5 C. [40 CFR 64.3(b)(3)]
- 16 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 17 Temperature (surrogate for Formaldehyde) monitored by temperature monitoring device daily Catalyst inlet and outlet temperature measured using a thermocouple while in operation. (1) Data Representativeness: Thermocouples will be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouples will remain until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: Initial performance test; and (3) Frequency of monitoring: Monitor and record the catalyst inlet and outlet temperature once per day. [40 CFR 64.6(c)(1)]
- 18 Which Months: All Year Statistical Basis: None specified
Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 19 An excursion or exceedance is defined as an actual temperature measurement below the minimum temperature range across the inlet and outlet of the catalyst bed. Minimum temperature range across the inlet and outlet of the catalyst bed shall be established using the most appropriate of the following: the most recent performance, manufacturer's recommendations, engineering calculations, and/or historical data. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]
- 20 Schedule for installation, testing or final verification of operational status: After installation of the catalytic oxidation control devices, an initial performance test will be conducted within sixty days after achieving normal production rate but in no event later than 180 days after initial start-up. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 21 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 22 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 23 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

SPECIFIC REQUIREMENTS**AI ID:** 24083 - Egan Hub Storage Facility**Activity Number:** PER20060002**Permit Number:** 0040-00059-V2**Air - Title V Regular Permit Major Mod****EQT002 GC-1A/B - Gas Compressor Engine (EG-100)**

- 24 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 25 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the formaldehyde emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 26 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 27 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 28 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 29 Monitoring data recordkeeping by electronic or hard copy daily. Monitor and record the catalyst inlet and outlet temperature once per day. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT003 GC-2A/B - Gas Compressor Engine (EG-200)

- 30 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: Six-minute average
- 31 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 32 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 33 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 34 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Initial startup test to be performed on at least one of the two Waukesha engines, Emission Points GC-1A/B and GC-2A/B. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility

Activity Number: PER20060002

Permit Number: 0040-00059-V2

Air - Title V Regular Permit Major Mod

EQT003 GC-2A/B - Gas Compressor Engine (EG-200)

- 35 Stack gas concentration: VOC, Total monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 36 Stack gas concentration: Nitrogen oxides monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NO_x in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 37 Stack gas concentration: Carbon monoxide monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 38 Stack gas concentration: Oxygen monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 39 Equipment/operational data recordkeeping by electronic or hard copy quarterly. Recorded parameters are NO_x, CO and O₂ concentrations in the stack gas obtained during quarterly testing. [LAC 33:III.501.C.6]
- 40 Consumption of Fuel monitored by metering system continuously. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Monthly total
- 41 Shall calculate NO_x, CO, and VOC emissions from the engine monthly, based on the actual fuel consumption. Records of monthly fuel consumption and monthly NO_x, CO, and VOC emissions shall be maintained on site and available for LDEQ inspection. [LAC 33:III.501.C.6]
- 42 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within one of the following: +/- 0.75 of the temperature being measured expressed in C; or +/- 2.5 C. [40 CFR 64.3(b)(3)]
- 43 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 44 Temperature (surrogate for Formaldehyde) monitored by temperature monitoring device daily Catalyst inlet and outlet temperature measured using a thermocouple while in operation. (1) Data Representativeness: Thermocouples will be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouples will remain until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: Initial performance test; and (3) Frequency of monitoring: Monitor and record the catalyst inlet and outlet temperature once per day. [40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- 45 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 46 An excursion or exceedance is defined as an actual temperature measurement below the minimum temperature range across the inlet and outlet of the catalyst bed. Minimum temperature range across the inlet and outlet of the catalyst bed shall be established using the most appropriate of the following: the most recent performance, manufacturer's recommendations, engineering calculations, and/or historical data. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

EQT003 GC-2A/B - Gas Compressor Engine (EG-200)

- 47 Schedule for installation, testing or final verification of operational status: After installation of the catalytic oxidation control devices, an initial performance test will be conducted within sixty days after achieving normal production rate but in no event later than 180 days after initial start-up. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 48 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 49 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 50 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated capture system to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 52 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the formaldehyde emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 53 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(ii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(viii), as applicable. [40 CFR 64.9(a)]
- 54 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 55 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 56 Monitoring data recordkeeping by electronic or hard copy daily. Monitor and record the catalyst inlet and outlet temperature once per day. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT004 GC-3A/B - Gas Compressor Engine (EG-300)

- 57 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1.311.C, LAC 33:III.1.01.B]
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
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Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

EQI004 GC-3A/B - Gas Compressor Engine (EG-300)

- 58 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA, on request. [LAC 33:III.1513]
- 59 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 60 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 61 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Initial startup test to be performed on at least three of the five Caterpillar engines, Emission Points GC-3A/B through GC-7A/B. [LAC 33:III.501.C.6]
- 62 Stack gas concentration: VOC, Total monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 63 Stack gas concentration: Oxygen monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 64 Stack gas concentration: Nitrogen oxides monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NO_x in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 65 Stack gas concentration: Carbon monoxide monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 66 Equipment/operational data recordkeeping by electronic or hard copy quarterly. Recorded parameters are NO_x, CO and O₂ concentrations in the stack gas obtained during quarterly testing. [LAC 33:III.501.C.6]
- 67 Consumption of Fuel monitored by metering system continuously. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Monthly total
- 68 Shall calculate NO_x, CO, and VOC emissions from the engine monthly, based on the actual fuel consumption. Records of monthly fuel consumption and monthly NO_x, CO, and VOC emissions shall be maintained on site and available for LDEQ inspection. [LAC 33:III.501.C.6]
- 69 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within one of the following: +/- 0.75% of the temperature being measured expressed in C; or +/- 2.5 C. [40 CFR 64.3(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

EQT004 GC-3A/B - Gas Compressor Engine (EG-300)

- 70 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 71 Temperature (surrogate for Carbon monoxide) monitored by temperature monitoring device daily Catalyst inlet and outlet temperature measured using a thermocouple while in operation. (1) Data Representativeness: Thermocouples will be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouples will remain until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: Initial performance test; and (3) Frequency of monitoring: Monitor and record the catalyst inlet and outlet temperature once per day. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
- 72 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 73 An excursion or exceedance is defined as an actual temperature measurement below the minimum temperature range across the inlet and outlet of the catalyst bed. Minimum temperature range across the inlet and outlet of the catalyst bed shall be established using the most appropriate of the following: the most recent performance, manufacturer's recommendations, engineering calculations, and/or historical data. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]
- 74 Schedule for installation, testing or final verification of operational status: After installation of the catalytic oxidation control devices, an initial performance test will be conducted within sixty days after achieving normal production rate but in no event later than 180 days after initial start-up. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 75 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 76 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 77 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 78 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 79 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the carbon monoxide emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 80 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
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EQT004 GC-3A/B - Gas Compressor Engine (EG-300)

- 81 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 82 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 83 Monitoring data recordkeeping by electronic or hard copy daily. Monitor and record the catalyst inlet and outlet temperature once per day. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT005 GC-4A/B - Gas Compressor Engine (EG-400)

- 84 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: Six-minute average
- 85 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 86 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 87 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 88 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Initial startup test to be performed on at least three of the five Caterpillar engines, Emission Pointis GC-3A/B through GC-7A/B. [LAC 33:III.501.C.6]
- 89 Stack gas concentration: VOC, Total monitored by portable analyzer quarterly (three months after the initial stack test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 90 Stack gas concentration: Oxygen monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 91 Stack gas concentration: Nitrogen oxides monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 92 Stack gas concentration: Carbon monoxide monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
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EQT005 GC4AB - Gas Compressor Engine (EG-400)

- 93 Equipment/operational data recordkeeping by electronic or hard copy quarterly. Recorded parameters are NOx, CO and O2 concentrations in the stack gas obtained during quarterly testing. [LAC 33.III.501.C.6]
- 94 Consumption of Fuel monitored by metering system continuously. [LAC 33.III.501.C.6]
 - Which Months: All Year Statistical Basis: Monthly total
- 95 Shall calculate NOX, CO, and VOC emissions from the engine monthly, based on the actual fuel consumption. Records of monthly fuel consumption and monthly NOX, CO, and VOC emissions shall be maintained on site and available for LDEQ inspection. [LAC 33.III.501.C.6]
- 96 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within one of the following: +/- 0.75 of the temperature being measured expressed in C; or +/- 2.5 C. [40 CFR 64.3(b)(3)]
- 97 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 98 Temperature (surrogate for Carbon monoxide) monitored by temperature monitoring device daily Catalyst inlet and outlet temperature measured using a thermocouple while in operation. (1) Data Representativeness: Thermocouples will be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouples will remain until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: Initial performance test; and (3) Frequency of monitoring: Monitor and record the catalyst inlet and outlet temperature once per day. [40 CFR 64.6(c)(1)]
 - Which Months: All Year Statistical Basis: None specified
- 99 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 100 An excursion or exceedance is defined as an actual temperature measurement below the minimum temperature range across the inlet and outlet of the catalyst bed. Minimum temperature range across the inlet and outlet of the catalyst bed shall be established using the most appropriate of the following: the most recent performance, manufacturer's recommendations, engineering calculations, and/or historical data. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]
 - Which Months: All Year Statistical Basis: None specified
- 101 Schedule for installation, testing or final verification of operational status: After installation of the catalytic oxidation control devices, an initial performance test will be conducted within sixty days after achieving normal production rate but in no event later than 180 days after initial start-up. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
 - Which Months: All Year Statistical Basis: None specified
- 102 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 103 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
 - Which Months: All Year Statistical Basis: None specified
- 104 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

EQT005 GC-4A/B - Gas Compressor Engine (EG-400)

105 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

106 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the carbon monoxide emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

107 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

108 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

109 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

110 Monitoring data recordkeeping by electronic or hard copy daily. Monitor and record the catalyst inlet and outlet temperature once per day. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT006 GC-5A/B - Gas Compressor Engine (EG-500)

111 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
 Which Months: All Year Statistical Basis: Six-minute average

112 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

113 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]

114 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]

115 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Initial startup test to be performed on at least three of the five Caterpillar engines, Emission Points GC-3/A/B through GC-7/A/B. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

EQT006 GC-5A/B - Gas Compressor Engine (EG-500)

- 116 Stack gas concentration: VOC, Total monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: None specified
- 117 Stack gas concentration: Carbon monoxide monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: None specified
- 118 Stack gas concentration: Nitrogen oxides monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NO_x in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: None specified
- 119 Stack gas concentration: Oxygen monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: None specified
- 120 Equipment/operational data recordkeeping by electronic or hard copy quarterly. Recorded parameters are NO_x, CO and O₂ concentrations in the stack gas obtained during quarterly testing. [LAC 33:III.501.C.6]
- 121 Consumption of Fuel monitored by metering system continuously. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Monthly total
- 122 Shall calculate NO_x, CO, and VOC emissions from the engine monthly, based on the actual fuel consumption. Records of monthly fuel consumption and monthly NO_x, CO, and VOC emissions shall be maintained on site and available for LDEQ inspection. [LAC 33:III.501.C.6]
- 123 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within one of the following: +/- 0.75 of the temperature being measured expressed in C; or +/- 2.5 C. [40 CFR 64.3(b)(3)]
- 124 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 125 Temperature (surrogate for Carbon monoxide) monitored by temperature monitoring device daily Catalyst inlet and outlet temperature measured using a thermocouple while in operation. (1) Data Representativeness: Thermocouples will be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouples will remain until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: Initial performance test; and (3) Frequency of monitoring: Monitor and record the catalyst inlet and outlet temperature once per day. [40 CFR 64.6(c)(1)]
 Which Months: All Year Statistical Basis: None specified
- 126 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 127 An excursion or exceedance is defined as an actual temperature measurement below the minimum temperature range across the inlet and outlet of the catalyst bed. Minimum temperature range across the inlet and outlet of the catalyst bed shall be established using the most appropriate of the following: the most recent performance, manufacturer's recommendations, engineering calculations, and/or historical data. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

EQT006 GC-5A/B - Gas Compressor Engine (EG-500)

- 128 Schedule for installation, testing or final verification of operational status: After installation of the catalytic oxidation control devices, an initial performance test will be conducted within sixty days after achieving normal production rate but in no event later than 180 days after initial start-up. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 129 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 130 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 131 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 132 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 133 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the carbon monoxide emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 134 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 135 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 136 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 137 Monitoring data recordkeeping by electronic or hard copy daily. Monitor and record the catalyst inlet and outlet temperature once per day. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT007 GC-6A/B - Gas Compressor Engine (EG-600)

- 138 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility

Activity Number: PER20060002

Permit Number: 0040-00059-V2

Air - Title V Regular Permit Major Mod

EQT007 GC-6A/B - Gas Compressor Engine (EG-600)

- 139 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 140 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 141 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 142 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Initial startup test to be performed on at least three of the five Caterpillar engines, Emission Points GC-3/A/B through GC-7/A/B. [LAC 33:III.501.C.6]
- 143 Stack gas concentration: VOC, Total monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 144 Stack gas concentration: Oxygen monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O₂ in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 145 Stack gas concentration: Nitrogen oxides monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NO_x in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 146 Stack gas concentration: Carbon monoxide monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- 147 Equipment/operational data recordkeeping by electronic or hard copy quarterly. Recorded parameters are NO_x, CO and O₂ concentrations in the stack gas obtained during quarterly testing. [LAC 33:III.501.C.6]
- 148 Consumption of Fuel monitored by metering system continuously. [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Monthly total
- 149 Shall calculate NO_x, CO, and VOC emissions from the engine monthly, based on the actual fuel consumption. Records of monthly fuel consumption and monthly NO_x, CO, and VOC emissions shall be maintained on site and available for LDEQ inspection. [LAC 33:III.501.C.6]
- 150 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within one of the following: +/- 0.75% of the temperature being measured expressed in C; or +/- 2.5 C. [40 CFR 64.3(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
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Air - Title V Regular Permit Major Mod

EQT007 GC-6A/B - Gas Compressor Engine (EG-600)

- 151 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 152 Temperature (surrogate for Carbon monoxide) monitored by temperature monitoring device daily Catalyst inlet and outlet temperature measured using a thermocouple while in operation. (1) Data Representativeness: Thermocouples will be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouples will remain until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: Initial performance test; and (3) Frequency of monitoring: Monitor and record the catalyst inlet and outlet temperature once per day. [40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- 153 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 154 An excursion or exceedance is defined as an actual temperature measurement below the minimum temperature range across the inlet and outlet of the catalyst bed. Minimum temperature range across the inlet and outlet of the catalyst bed shall be established using the most appropriate of the following: the most recent performance, manufacturer's recommendations, engineering calculations, and/or historical data. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]
- 155 Schedule for installation, testing or final verification of operational status: After installation of the catalytic oxidation control devices, an initial performance test will be conducted within sixty days after achieving normal production rate but in no event later than 180 days after initial start-up. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 156 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 157 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 158 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 159 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 160 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the carbon monoxide emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 161 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(ii), as applicable. [40 CFR 64.9(a)]

SPECIFIC REQUIREMENTS**All ID: 24083 - Egan Hub Storage Facility****Activity Number: PER20060002****Permit Number: 0040-00059-V2****Air - Title V Regular Permit Major Mod****EQT007 GC-6A/B - Gas Compressor Engine (EG-600)**

- 162 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 163 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 164 Monitoring data recordkeeping by electronic or hard copy daily. Monitor and record the catalyst inlet and outlet temperature once per day. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT008 GC-7A/B - Gas Compressor Engine (EG-700)

- 165 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: Six-minute average
- 166 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 167 Submit notification: Due at least 30 days prior to performance/emissions test to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services, to provide the opportunity to conduct a pretest meeting and observe the emission testing. [LAC 33:III.501.C.6]
- 168 Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. [LAC 33:III.501.C.6]
- 169 Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Repeat the test after each major engine overhaul. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. Initial startup test to be performed on at least three of the five Caterpillar engines, Emission Points GC-3A/B through GC-7A/B. [LAC 33:III.501.C.6]
- 170 Stack gas concentration: VOC, Total monitored by portable analyzer quarterly (three months after the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 171 Stack gas concentration: Oxygen monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of O2 in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 172 Stack gas concentration: Carbon monoxide monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of CO in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified
- 173 Stack gas concentration: Nitrogen oxides monitored by portable analyzer quarterly (three months after the stack test or previous annual test, plus or minus 30 days). Maintain concentrations of NOx in the same range as during the initial stack test. Calibrate portable analyzers before each test using a known reference gas sample. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

EQT008 GC-7A/B - Gas Compressor Engine (EG-700)

- 174 Equipment/operational data recordkeeping by electronic or hard copy quarterly. Recorded parameters are NOx, CO and O₂ concentrations in the stack gas obtained during quarterly testing. [LAC 33:III.501.C.6]
- 175 Consumption of Fuel monitored by metering system continuously. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Monthly total
- 176 Shall calculate NOX, CO, and VOC emissions from the engine monthly, based on the actual fuel consumption. Records of monthly fuel consumption and monthly NOX, CO, and VOC emissions shall be maintained on site and available for LDEQ inspection. [LAC 33:III.501.C.6]
- 177 Specific QA/QC Procedures: Calibrate, operate, and maintain instrument using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within one of the following: +/- 0.75° of the temperature being measured expressed in C, or +/- 2.5 C. [40 CFR 64.3(b)(3)]
- 178 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 179 Temperature (surrogate for Carbon monoxide) monitored by temperature monitoring device daily Catalyst inlet and outlet temperature measured using a thermocouple while in operation. (1) Data Representativeness: Thermocouples will be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouples will remain until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: Initial performance test; and (3) Frequency of monitoring: Monitor and record the catalyst inlet and outlet temperature once per day. [40 CFR 64.6(c)(1)]
 Which Months: All Year Statistical Basis: None specified
- 180 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 181 An excursion or exceedance is defined as an actual temperature measurement below the minimum temperature range across the inlet and outlet of the catalyst bed. Minimum temperature range across the inlet and outlet of the catalyst bed shall be established using the most appropriate of the following: the most recent performance, manufacturer's recommendations, engineering calculations, and/or historical data. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]
- 182 Schedule for installation, testing or final verification of operational status: After installation of the catalytic oxidation control devices, an initial performance test will be conducted within sixty days after achieving normal production rate but in no event later than 180 days after initial start-up. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 183 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 184 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 185 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

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Activity Number: PER20060002

Permit Number: 0040-00059-V2

Air - Title V Regular Permit Major Mod

EQT008 GC-7A/B - Gas Compressor Engine (EG-700)

186 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

187 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the carbon monoxide emission limitation or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

188 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

189 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

190 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

191 Monitoring data recordkeeping by electronic or hard copy daily. Monitor and record the catalyst inlet and outlet temperature once per day. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT009 GG-1- Emergency Generator Engine (EG-036)

192 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1.311.C, LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: Six-minute average

193 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT010 GG-2 - Emergency Generator Engine (EG-037)

194 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1.311.C, LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: Six-minute average

195 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT011 GG-3 - Emergency Generator Engine (EG-038)

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AI ID: 24083 - Egan Hub Storage Facility

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EQT011 GG-3 - Emergency Generator Engine (EG-038)

196 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: Six-minute average

197 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT012 GG-4 - Emergency Generator Engine (EG-039)

198 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: Six-minute average

199 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT013 GG-5 - Emergency Generator Engine (EG-040)

200 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: Six-minute average

201 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

EQT014 R-1 - Dehy Reboller (RB-01)

202 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: Six-minute average

203 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

204 Glycol Dehydration Unit Process Vents exempt from control requirements under paragraph 63.1274(d); Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(d)(2) of this section, for each glycol dehydration unit that is not controlled according to the requirements of paragraph 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]

EQT015 R-2 - Dehy Reboller (RB-02)

205 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS**AI ID: 24083 - Egan Hub Storage Facility****Activity Number: PER20060002****Permit Number: 0040-00059-V2****Air - Title V Regular Permit Major Mod****EQT015 R-2 - Dehy Reboiler (RB-02)**

- 206 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.15.13]
- 207 Glycol Dehydration Unit Process Vents exempt from control requirements under paragraph 63.1274(d): Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(d)(2) of this section, for each glycol dehydration unit that is not controlled according to the requirements of paragraph 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]

EQT022 T-5 - Methanol Storage Tank

- 208 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 209 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a.e. [LAC 33:III.2103.H.3]
- 210 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

EQT026 T-12 - Methanol/Water Mixture Storage Tank

- 211 Equip with a submerged fill pipe. [LAC 33:III.2103.A]
- 212 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a.e. [LAC 33:III.2103.H.3]
- 213 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I]

EQT035 FT-1 - Dehydration Unit No. 1 Flash Tank

- 214 Flash Tank Off Gas: VOC, Total \geq 98 % reduction using a control device. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D (STATE ONLY). [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 215 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the results of any testing conducted in accordance with LAC 33:III.2116.D (STATE ONLY). [LAC 33:III.501.C.6]
- 216 Determine actual average benzene emissions using the model GRI-GLYCalc, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc Technical Reference Manual. Subpart HHH. [40 CFR 63.1282(a)(2)(ii)]
- 217 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 40 CFR 63.1284(d)(1) or (d)(2), as appropriate, for each glycol dehydration unit that is not controlled according to the requirements of 40 CFR 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]

EQT036 FT-2 - Dehydration Unit No. 2 Flash Tank

- 218 Flash Tank Off Gas: VOC, Total \geq 98 % reduction using a control device. Demonstrate percent reduction using the methods found in LAC 33:III.2116.D (STATE ONLY). [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 219 Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of the results of any testing conducted in accordance with LAC 33:III.2116.D (STATE ONLY). [LAC 33:III.501.C.6]

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EQT036 FT-2 - Dehydration Unit No. 2 Flash Tank

- 220 Determine actual average benzene emissions using the model GRI-GLYCalc, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc Technical Reference Manual. Subpart HHH. [40 CFR 63.1282(a)(2)(ii)]
- 221 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 40 CFR 63.1284(d)(1) or (d)(2), as appropriate, for each glycol dehydration unit that is not controlled according to the requirements of 40 CFR 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]

EQT041 SV-1 - Dehydration Unit No. 1 Regenerator Still Vent

- 222 VOC/HAP Control: Temperature \geq 1700 F (927 degrees C) for 0.5 seconds or greater in a thermal incinerator. Device will provide 99 percent or greater VOC/HAP destruction or removal efficiency, as determined in accordance with LAC 33:III.2115.J.1. [LAC 33:III.2115.G, 40 CFR 64]
- Which Months: All Year Statistical Basis: None specified
- 223 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 224 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 225 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2 through e. [LAC 33:III.2115.J.2]
- 226 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115. [LAC 33:III.2115.J]
- 227 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 228 Still Column Overheads: VOC, Total \geq 99 % reduction using a control device. Demonstrate percent reduction using the methods found in LAC 33:III.2115. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 229 Determine actual average benzene emissions using the model GRI-GLYCalc, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc Technical Reference Manual. Subpart HHH. [40 CFR 63.1282(a)(2)(ii)]
- 230 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 40 CFR 63.1284(d)(1) or (d)(2), as appropriate, for each glycol dehydration unit that is not controlled according to the requirements of 40 CFR 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]

EQT042 SV-2 - Dehydration Unit No. 2 Regenerator Still Vent

- 231 VOC/HAP Control: Temperature \geq 1500 F (816 degrees C) for 0.5 seconds or greater in a thermal incinerator. Device will provide 99.9 percent or greater VOC/HAP destruction or removal efficiency, as determined in accordance with LAC 33:III.2115.J.1. [LAC 33:III.2115.G, 40 CFR 64]
- Which Months: All Year Statistical Basis: None specified
- 232 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 233 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 234 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2 through e. [LAC 33:III.2115.J.2]
- 235 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115. [LAC 33:III.2115.J]

SPECIFIC REQUIREMENTS

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EQT042 SV-2 - Dehydration Unit No. 2 Regenerator Still Vent

- 236 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 237 Still Column Overheads: VOC, Total >= 99.9 % reduction using a control device. Demonstrate percent reduction using the methods found in LAC 33:III.2115. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

- 238 Determine actual average benzene emissions using the model GRI-GLYCalc, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc Technical Reference Manual. Subpart HHH. [40 CFR 63.1282(a)(2)(ii)]

- 239 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 40 CFR 63.1284(d)(1) or (d)(2), as appropriate, for each glycol dehydration unit that is not controlled according to the requirements of 40 CFR 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]

EQT043 T-13 - Pipeline Liquids Storage Tank

- 240 Equip with a submerged fill pipe. [LAC 33:III.2103.A]

- 241 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]

- 242 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

EQT046 TO-1 - Dehy Thermal Oxidizer (TO-01)

- 243 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: Six-minute average

- 244 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

- 245 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

- 246 Still Column Overheads: VOC, Total >= 99 % reduction and >= 99 % reduction in HAPs. Demonstrate percent reduction using the methods found in LAC 33:III.2115. [LAC 33:III.2115.G, 40 CFR 64]

Which Months: All Year Statistical Basis: None specified

- 247 VOC/HAP Control: Temperature >= 1700 F (927 degrees C) for 0.5 seconds or greater in the combustion chamber of the thermal oxidizer. Device will provide 99 percent or greater VOC/HAP destruction or removal efficiency, as determined in accordance with LAC 33:III.2115.J.1. [LAC 33:III.2115.G, 40 CFR 64]

Which Months: All Year Statistical Basis: None specified

- 248 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]

- 249 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]

- 250 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]

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AI ID: 24083 - Egan Hub Storage Facility
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EQT046 TO-1 - Dehy Thermal Oxidizer (TO-01)

- 251 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115. [LAC 33:III.2115.J]
- 252 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K. 1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 253 Glycol Dehydration Unit Process Vents exempt from control requirements under paragraph 63.1274(d). Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(d)(2) of this section, for each glycol dehydration unit that is not controlled according to the requirements of paragraph 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]
- 254 Glycol Dehydration Unit Process Vents exempt from control requirements under paragraph 63.1274(d). Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(d)(2) of this section, for each glycol dehydration unit that is not controlled according to the requirements of paragraph 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]
- 255 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within 12.8 °F for TO-1 and within 11.3 °F for TO-2 (+ 0.75 % of the temperature being measured). [40 CFR 64.3(b)(3)]
- 256 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 257 VOC/HAPs Control: Temperature monitored by temperature monitoring device daily. Combustion chamber temperature is to be monitored with a thermocouple. (1) Data Representativeness: Thermocouples would be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouple would be left alone until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: existing; and (3) Frequency of monitoring: Monitor and record the combustion chamber temperature once per day. [40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- 258 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 259 An excursion or exceedance is defined as an actual measured combustion chamber temperature below the minimum value listed in this permit. The minimum value for combustion chamber temperature is the temperature established by the manufacturer to achieve the destruction efficiency guaranteed. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]
- 260 Equipment/operational data recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]
- 261 Schedule for installation, testing or final verification of operational status: An initial performance test will be conducted after achieving normal production rate of glycol dehydration unit. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 262 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 263 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)].

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EQT046 TO-1 - Dehy Thermal Oxidizer (TO-01)

- 264 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 265 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 266 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the VOC/HAPs emission limitations or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 267 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 268 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 269 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 270 VOC/HAPs Control: Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT047 TO-2 - Dehy Thermal Oxidizer (TO-02)

- 271 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
 Which Months: All Year Statistical Basis: Six-minute average
- 272 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 273 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 274 VOC/HAP Control: Temperature >= 1500 F (816 degrees C) for 0.5 seconds or greater in the combustion chamber of the thermal oxidizer. Device will provide 99.9 percent or greater VOC/HAP destruction or removal efficiency, as determined in accordance with LAC 33:III.2115.J.1. [LAC 33:III.2115.G, 40 CFR 64]
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
 Activity Number: PER20060002
 Permit Number: 0040-00059-V2
 Air - Title V Regular Permit Major Mod

EQT047 TO-2 - Dehy Thermal Oxidizer (TO-02)

- 275 Still Column Overheads: VOC, Total $\geq 99.9\%$ reduction and $\geq 99\%$ reduction in HAPs. Demonstrate percent reduction using the methods found in LAC 33:III.2115. [40 CFR 64, LAC 33:II.2115.G]
- Which Months: All Year Statistical Basis: None specified
- 276 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 277 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 278 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2 through e. [LAC 33:III.2115.J.2]
- 279 Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.J. [LAC 33:III.2115.J]
- 280 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 281 Glycol Dehydration Unit Process Vents exempt from control requirements under paragraph 63.1274(d): Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(d)(2) of this section, for each glycol dehydration unit that is not controlled according to the requirements of paragraph 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]
- 282 Glycol Dehydration Unit Process Vents exempt from control requirements under paragraph 63.1274(d): Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(d)(2) of this section, for each glycol dehydration unit that is not controlled according to the requirements of paragraph 63.1274(c). Subpart HHH. [40 CFR 63.1284(d)]
- 283 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specification, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate within 12.8 °F for TO-1 and within 11.3 °F for TO-2 (+ 0.75 % of the temperature being measured). [40 CFR 64.3(b)(3)]
- 284 Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
- 285 VOC/HAPs Control: Combustion chamber temperature is to be monitored with a thermocouple. (1) Data Representativeness: Thermocouples would be purchased with a calibration check at various points throughout the range of operation of the thermocouple. Once installed, the thermocouple would be left alone until replacement is necessary following thermocouple failure denoted by maximum temperature reading; (2) Verification of Operational Status: existing; and (3) Frequency of monitoring: Monitor and record the combustion chamber temperature once per day. [40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- 286 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 287 An excursion or exceedance is defined as an actual measured combustion chamber temperature below the minimum value listed in this permit. The minimum value for combustion chamber temperature is the temperature established by the manufacturer to achieve the destruction efficiency guaranteed. An excursion is also any missed daily temperature reading that is not due to weather conditions. Excursions trigger an inspection, corrective action, and documentation. [40 CFR 64.6(c)(2)]
- 288 Equipment/operational data recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility

Activity Number: PER20060002

Permit Number: 0040-00059-V2

Air - Title V Regular Permit Major Mod

EQT047 TO-2 - Dehy Thermal Oxidizer (TO-02)

- 289 Schedule for installation, testing or final verification of operational status: An initial performance test will be conducted after achieving normal production rate of glycol dehydration unit. The Office of Environmental Assessment, Environmental Technology Division shall be notified at least 30 days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. [40 CFR 64.6(d)]
- 290 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 291 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 292 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 293 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 294 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the VOC/HAPs emission limitations or the standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 295 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 296 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 297 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 298 VOC/HAPs Control: Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT048 V-1 - Gas Release Events

- 299 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:II.2115.K]

EQT049 GC-8 - Gas-Fired Turbine (EG-800)

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

EQT049 GC-8 - Gas-Fired Turbine (EG-800)

- 300 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: Six-minute average
- 301 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 302 Nitrogen oxides <= 150 ppmvd @ 15% O₂ when turbine operates at less than 75% of peak load or when ambient temperature is less than 0 F and 25 ppmvd @ 15% O₂ at all other times. Subpart KKKK. [40 CFR 60.4320(a)]
- Which Months: All Year Statistical Basis: Hourly average
- 303 Sulfur dioxide <= 0.060 lb/MMBTU (26 ng/J) heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement. Subpart KKKK. [40 CFR 60.4330(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 304 Operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. Subpart KKKK. [40 CFR 60.4333(a)]
- 305 Demonstrate continuous compliance for NOx by performing annual performance tests in accordance with 40 CFR 60.4400. Subpart KKKK. [40 CFR 60.4340(a)]
- 306 Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as provided in 40 CFR 60.4365. Monitor the total sulfur content of the fuel being fired in the turbine using the total sulfur methods described in 40 CFR 60.4415 at the frequency specified in 40 CFR 60.4370. Subpart KKKK. [40 CFR 60.4360]
- Which Months: All Year Statistical Basis: None specified
- 307 Conduct an initial performance test for NOx, as required in 40 CFR 60.8. Use one of methodologies specified in 40 CFR 60.4400. Subpart KKKK. [40 CFR 60.4400]

EQT050 GC-9 - Gas-Fired Turbine (EG-900)

- 308 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: Six-minute average
- 309 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 310 Nitrogen oxides <= 150 ppmvd @ 15% O₂ when turbine operates at less than 75% of peak load or when ambient temperature is less than 0 F and 25 ppmvd @ 15% O₂ at all other times. Subpart KKKK. [40 CFR 60.4320(a)]
- Which Months: All Year Statistical Basis: Hourly average
- 311 Sulfur dioxide <= 0.060 lb/MMBTU (26 ng/J) heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement. Subpart KKKK. [40 CFR 60.4330(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 312 Operate and maintain the stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction. Subpart KKKK. [40 CFR 60.4333(a)]
- 313 Demonstrate continuous compliance for NOx by performing annual performance tests in accordance with 40 CFR 60.4400. Subpart KKKK. [40 CFR 60.4340(a)]

SPECIFIC REQUIREMENTS

AI ID: 24083 - Egan Hub Storage Facility

Activity Number: PER20060002

Permit Number: 0040-00059-V2

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EQT050 GC-9 - Gas-Fired Turbine (EG-900)

314 Fuel sulfur content monitored by the regulation's specified method(s) at the regulation's specified frequency, except as provided in 40 CFR 60.4365. Monitor the total sulfur content of the fuel being fired in the turbine using the total sulfur methods described in 40 CFR 60.4415 at the frequency specified in 40 CFR 60.4370. Subpart KKKK. [40 CFR 60.4360]

Which Months: All Year Statistical Basis: None specified

315 Postmark the excess emissions report required under 40 CFR 60.7(c) by the 30th day following the end of each 6-month period. Subpart KKKK. [40 CFR 60.4395]

316 Conduct an initial performance test for NOx, as required in 40 CFR 60.8. Use one of methodologies specified in 40 CFR 60.4400. Subpart KKKK. [40 CFR 60.4400]

EQT053 GG-6 - Emergency Generator Engine (EG-041)

317 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1311.C, LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: Six-minute average

318 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

FUG001 F-2 - Piping Component Fugitives

319 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]

GRP003 GC-CAP - Compressor Engine Cap

320 Shall comply with NOX, VOC, and CO limits of the emission cap. NOX, VOC, or CO emissions above the limits of this cap for any twelve consecutive month period shall be considered a permit violation and must be reported to the Office of Environmental Compliance, Enforcement Division. [LAC 33:III.501.C.6]

321 NOX, VOC, and Carbon monoxide monitored by technically sound method monthly. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Monthly total

322 Emissions of NOX, VOC, and Carbon monoxide recordkeeping by electronic or hard copy-monthly. Keep records of the NOX, VOC, and CO emissions from all compressor for each month, as well as the total emissions for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]

GRP005 Egan Gas Storage Facility

323 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]

324 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]

325 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]

326 Propylene oxide <= 0.054 tons/yr. [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

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GRP005 Egan Gas Storage Facility

- 327 1,3-Butadiene <= 0.120 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 328 2,2,4-Trimethylpentane <= 0.13 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 329 2-Methylnaphthalene <= 0.020 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 330 Acetaldehyde <= 0.39 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 331 Acrolein <= 0.924 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 332 Benzene <= 1.47 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 333 Carbon monoxide <= 61.13 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 334 Ethyl benzene <= 0.14 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 335 Formaldehyde <= 2.66 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 336 Methanol <= 8.10 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 337 Naphthalene <= 0.064 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 338 n-Hexane <= 1.84 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 339 Nitrogen oxides <= 206.26 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 340 Particulate matter (10 microns or less) <= 17.58 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 341 Polynuclear Aromatic Hydrocarbons <= 0.018 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 342 Sulfur dioxide <= 4.70 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 343 Toluene <= 1.34 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 344 VOC Total <= 97.50 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 345 Xylene (mixed isomers) <= 0.70 tons/yr. [LAC 33:III.501.C.6]
 Which Months: All Year Statistical Basis: Annual maximum
- 346 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.561.1.A]

SPECIFIC REQUIREMENTS

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GRP005 **Egan Gas Storage Facility**

- 347 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 348 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919 A-D. [LAC 33:III.919 D]
- 349 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 350 Do not shut down items of equipment that are required or utilized for compliance with the provisions of 40 CFR 63 Subpart HHH during times when emissions are being routed to such items of equipment, if the shutdown would contravene requirements applicable to such items of equipment. Subpart HHH. [40 CFR 63.1272(b)]
- 351 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in 40 CFR 63.1284(b) through (e).
- 352 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A as delineated in Appendix Table 2 of 40 CFR 63 Subpart HHH. [40 CFR 63]
- 353 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]

General Information

AI ID: 24083 Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
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Also Known As:	ID	Name	User Group	Start Date
		Egan Hub Storage LLC	Air Permitting	12-20-1994
		Egan Natural Gas Storage Facility	Air Permitting	12-20-1994
0040-00059	0040-00059	Egan Natural Gas Storage Facility	CDS Number	08-05-2002
LAR000053587	LAG480577	Egan Natural Gas Storage Facility	Emission Inventory	02-19-2004
	LAR10B862	MHP- Egan	Hazardous Waste Notification	11-24-2003
	LAG531960	LPDES #	LPDES Permit #	06-01-2006
	45297	LPDES #	LPDES Permit #	02-21-2006
	45341	LPDES #	LPDES Permit #	06-03-2002
		Duke Energy Gas Transmission (parent/operator)	Multimedia	08-30-2000
		Egan Hub Partners LP - Egan Gas Storage Facility	Priority 1 Emergency Site	06-01-2006
		Egan Hub Partners LP	TEMPO Merge	04-13-2003
		Egan Hub Partners LP	TEMPO Merge	04-13-2003
			Main Phone:	3378246100
Physical Location:		401 Ida Fruge Rd Evangeline, LA 70537		
Mailing Address:		5400 Westheimer Ct Houston, TX 77056		
Location of Front Gate:		30° 15' 34" latitude, 92° 34' 24" longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27		
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Julie Allison	5400 Westheimer Ct Houston, TX 77056	7139898333 (WP)	Water Permit Contact For
	Christopher T. Ditzel	PO Box 1642 Houston, TX 772511642	7139898331 (WP)	Air Permit Contact For
	Sabino Gomez	PO Box 1642 Houston, TX 772511642	7139898342 (WP)	Emission Inventory Contact for
	Sabino Gomez	PO Box 1642 Houston, TX 772511642	SXGOMEZ@DUKE-	Emission Inventory Contact for
	Don Haney	401 Ida Fruge Rd Evangeline, LA 70537	7139898343 (WP)	Haz. Waste Billing Party for
	Fulkra J. Mason	PO Box 1642 Houston, TX 772511642		Responsible Official for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Egan Hub Storage LLC	PO Box 125 Evangeline, LA 705370125	3376168259 (WP)	Operates
	Egan Hub Storage LLC	PO Box 125 Evangeline, LA 705370125	3376168259 (WP)	Air Billing Party for
	Egan Hub Storage LLC	PO Box 125 Evangeline, LA 705370125	3376168259 (WP)	Water Billing Party for
	Texas Eastern Transmission LP	PO Box 1642 Houston, TX 772511642	7139898331 (WP)	Owns
SIC Codes:	4922, Natural gas transmission			

General Information

AI ID: 24083 Egan Hub Storage Facility
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Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrard, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT001	DG-1 - Emergency Generator Engine (EG-035)	423 horsepower	385 horsepower	385 horsepower	500 hr/yr (All Year)	(None Specified)
EQT002	GC-1A/B - Gas Compressor Engine (EG-100)	3287 horsepower	3130 horsepower	3130 horsepower	(None Specified)	(None Specified)
EQT003	GC-2A/B - Gas Compressor Engine (EG-200)	3287 horsepower	3130 horsepower	3130 horsepower	(None Specified)	(None Specified)
EQT004	GC-3A/B - Gas Compressor Engine (EG-300)	4667 horsepower	4445 horsepower	4445 horsepower	(None Specified)	(None Specified)
EQT005	GC-4A/B - Gas Compressor Engine (EG-400)	4667 horsepower	4445 horsepower	4445 horsepower	(None Specified)	(None Specified)
EQT006	GC-5A/B - Gas Compressor Engine (EG-500)	4667 horsepower	4445 horsepower	4445 horsepower	(None Specified)	(None Specified)
EQT007	GC-6A/B - Gas Compressor Engine (EG-600)	4667 horsepower	4445 horsepower	4445 horsepower	(None Specified)	(None Specified)
EQT008	GC-7A/B - Gas Compressor Engine (EG-700)	4667 horsepower	4445 horsepower	4445 horsepower	500 hr/yr (All Year)	500 hr/yr (All Year)
EQT009	GG-1 - Emergency Generator Engine (EG-036)	11 horsepower	10 horsepower	10 horsepower	500 hr/yr (All Year)	500 hr/yr (All Year)
EQT010	GG-2 - Emergency Generator Engine (EG-037)	11 horsepower	10 horsepower	10 horsepower	500 hr/yr (All Year)	500 hr/yr (All Year)
EQT011	GG-3 - Emergency Generator Engine (EG-038)	11 horsepower	10 horsepower	10 horsepower	500 hr/yr (All Year)	500 hr/yr (All Year)
EQT012	GG-4 - Emergency Generator Engine (EG-039)	11 horsepower	10 horsepower	10 horsepower	500 hr/yr (All Year)	500 hr/yr (All Year)
EQT013	GG-5 - Emergency Generator Engine (EG-040)	3 MM BTU/hr	2.9 MM BTU/hr	2.9 MM BTU/hr	8760 hr/yr (All Year)	8760 hr/yr (All Year)
EQT014	R-1 - Dehy Reboiler (RB-01)	9.4 MM BTU/hr	8.9 MM BTU/hr	8.9 MM BTU/hr	8760 hr/yr (All Year)	8760 hr/yr (All Year)
EQT015	R-2 - Dehy Reboiler (RB-02)	125 scf/hr	125 scf/hr	125 scf/hr	510 hr/yr (All Year)	510 hr/yr (All Year)
EQT018	MIP-2 - Methanol Injection Pump	125 scf/hr	125 scf/hr	125 scf/hr	510 hr/yr (All Year)	510 hr/yr (All Year)
EQT019	MIP-3 - Methanol Injection Pump	125 scf/hr	125 scf/hr	125 scf/hr	510 hr/yr (All Year)	510 hr/yr (All Year)
EQT020	MIP-4 - Methanol Injection Pump	125 scf/hr	125 scf/hr	125 scf/hr	510 hr/yr (All Year)	510 hr/yr (All Year)
EQT021	MIP-5 - Methanol Injection Pump	16800 gallons	235200 gallons/yr	235200 gallons/yr	Methanol	8760 hr/yr (All Year)
EQT022	T-5 - Methanol Storage Tank	16800 gallons	201600 gallons/yr	201600 gallons/yr	Oily Water	8760 hr/yr (All Year)
EQT023	T-7 - Oily Water Storage Tank	210000 gallons	2628 MM bbl/yr	2628 MM bbl/yr	Brine	8760 hr/yr (All Year)
EQT024	T-8A - Brine Storage Tank	210000 gallons	2628 MM bbl/yr	2628 MM bbl/yr	Brine	8760 hr/yr (All Year)
EQT025	T-8B - Brine Storage Tank	8800 gallons	35040 gallons/yr	35040 gallons/yr	Methanol/Water Mixture	8760 hr/yr (All Year)
EQT026	T-12 - Methanol/Water Mixture Storage Tank	8800 gallons	15000 gallons/hr	201600 gallons/yr	Lube Oil	13.5 hr/yr (All Year)
EQT027	F-1A - Oily Water Truck Loading Area (TL1)	1600 gallons/hr	32000 gallons/yr	32000 gallons/yr	20 hr/yr (All Year)	20 hr/yr (All Year)
EQT028	F-1B - Lubricating Oil Truck Loading Area (TL2)	8800 gallons/hr	35040 gallons/yr	35040 gallons/yr	Methanol/Water Mixture	4 hr/yr (All Year)
EQT029	F-1C - Methanol/Water Mixture Truck Loading Area (TL3)	8800 gallons/hr	43800 gallons/yr	43800 gallons/yr	Pipeline Liquids	5 hr/yr (All Year)
EQT034	F-1D - Pipeline Liquids Truck Loading Area (TL4)	884 scf/hr	884 scf/hr	884 scf/hr	Pipeline Liquids	8760 hr/yr (All Year)
EQT035	FT-1 - Dehydration Unit No. 1 Flash Tank	3110 scf/hr	2962 scf/hr	2962 scf/hr	Safety-Kleen Solvent or equivalent	8760 hr/yr (All Year)
EQT036	FT-2 - Dehydration Unit No. 2 Flash Tank	Not applicable	Not applicable	Not applicable	Safety-Kleen Solvent or equivalent	8760 hr/yr (All Year)
EQT040	PW-1 - Parts Washer	252 MM ft^3/day	252 MM ft^3/day	252 MM ft^3/day	8760 hr/yr (All Year)	8760 hr/yr (All Year)
EQT041	SV-1 - Dehydration Unit No. 1 Regenerator Still Vent	640 MM ft^3/day	640 MM ft^3/day	640 MM ft^3/day	8760 hr/yr (All Year)	8760 hr/yr (All Year)
EQT042	SV-2 - Dehydration Unit No. 2 Regenerator Still Vent	8800 gallons	43800 gallons/yr	43800 gallons/yr	Pipeline Liquids	8760 hr/yr (All Year)
EQT043	T-13 - Pipeline Liquids Storage Tank	210000 gallons	2658 MM bbl/yr	2658 MM bbl/yr	Brine	8760 hr/yr (All Year)
EQT044	T-8C - Brine Storage Tank	210000 gallons	2628 MM bbl/yr	2628 MM bbl/yr	Brine	8760 hr/yr (All Year)
EQT045	T-8D - Brine Storage Tank	1.7 MM BTU/hr	1.7 MM BTU/hr	1.7 MM BTU/hr	Brine	8760 hr/yr (All Year)
EQT046	TO-1 - Dehy Thermal Oxidizer (TO-01)					

INVENTORIES

AI ID: 24083 - Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT047	TO-2 - Deny Thermal Oxidizer (TO-02)		6.1 MM BTU/hr	5.8 MM BTU/hr		8760 hr/yr (All Year)
EQT048	V-1 - Gas Release Events	307500 ft^3/hr	10.16 MM ft^3/yr			4004 hr/yr (All Year)
EQT049	GC-8 - Gas-Fired Turbine (EG-800)	16872 horsepower	14174 horsepower			8760 hr/yr (All Year)
EQT050	GC-9 - Gas-Fired Turbine (EG-900)	16872 horsepower	14174 horsepower			8760 hr/yr (All Year)
EQT053	GG-6 - Emergency Generator Engine (EG-041)	924 horsepower	880 horsepower			500 hr/yr (All Year)
FUG001	F-2 - Piping Component Fugitives	Not applicable	Not applicable			8760 hr/yr (All Year)

Relationships:

ID	Description	Relationship	Subject Item
GRP003	GC-CAP - Compressor Engine Cap	Controlled by	EQT14 R-1- Deny Reboiler (RB-01)
GRP003	GC-CAP - Compressor Engine Cap	Controlled by	EQT46 TO-1 - Deny Thermal Oxidizer (TO-01)
GRP005	Egan Gas Storage Facility	Controlled by	EQT15 R-2 - Deny Reboiler (RB-02)
		Controlled by	EQT47 TO-2 - Deny Thermal Oxidizer (TO-02)
		Controlled by	EQT46 TO-1 - Deny Thermal Oxidizer (TO-01)
		Controlled by	EQT47 TO-2 - Deny Thermal Oxidizer (TO-02)

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT001	DG-1 - Emergency Generator Engine (EG-035)					
EQT002	GC-1/A/B - Gas Compressor Engine (EG-100)	113	9457	1.33	46	703
EQT003	GC-2/A/B - Gas Compressor Engine (EG-200)	113	9457	1.33	46	703
EQT004	GC-3/A/B - Gas Compressor Engine (EG-300)	81	15295	2	46	838
EQT005	GC-4/A/B - Gas Compressor Engine (EG-400)	81	15295	2	46	838
EQT006	GC-5/A/B - Gas Compressor Engine (EG-500)	81	15295	2	21.5	838
EQT007	GC-6/A/B - Gas Compressor Engine (EG-600)	81	15295	2	21.5	838
EQT008	GC-7/A/B - Gas Compressor Engine (EG-700)	81	15295	2	21.5	838
EQT009	GG-1 - Emergency Generator Engine (EG-036)					
EQT010	GG-2 - Emergency Generator Engine (EG-037)					
EQT011	GG-3 - Emergency Generator Engine (EG-038)					
EQT012	GG-4 - Emergency Generator Engine (EG-039)					
EQT013	GG-5 - Emergency Generator Engine (EG-040)					

INVENTORIES

AI ID: 24083 -Egan Hub Storage Facility
Activity Number: PER20060002
Permit Number: 0040-00059-V2
Air - Title V Regular Permit Major Mod

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
EQT014 R-1- Dehy Reboiler (RB-01)	7	1281	2		28	800
EQT015 R-2 - Dehy Reboiler (RB-02)	21	3966	2		28	800
EQT018 MIP-2- Methanol Injection Pump		2.08				77
EQT019 MIP-3 - Methanol Injection Pump		2.08				77
EQT020 MIP-4 - Methanol Injection Pump		2.08				77
EQT021 MIP-5 - Methanol Injection Pump		2.08				77
EQT022 T-5 - Methanol Storage Tank						77
EQT023 T-7 - Oily Water Storage Tank						77
EQT024 T-8A - Brine Storage Tank						77
EQT025 T-8B - Brine Storage Tank						77
EQT026 T-12 - Methanol/Water Mixture Storage Tank						77
EQT027 F-1A - Oily Water Truck Loading Area (TL1)						77
EQT028 F-1B - Lubricating Oil Truck Loading Area (TL2)						77
EQT029 F-1C - Methanol/Water Mixture Truck Loading Area (TL3)						77
EQT034 F-1D - Pipeline Liquids Truck Loading Area (TL4)						77
EQT035 FT-1 - Dehydration Unit No. 1 Flash Tank		13.87				80
EQT036 FT-2 - Dehydration Unit No. 2 Flash Tank		48.83				80
EQT040 PW-1 - Parts Washer						77
EQT041 SV-1 - Dehydration Unit No. 1 Regenerator Still Vent		39.83				212
EQT042 SV-2 - Dehydration Unit No. 2 Regenerator Still Vent		110.5				212
EQT043 T-13 - Pipeline Liquids Storage Tank						77
EQT044 T-8C - Brine Storage Tank						77
EQT045 T-8D - Brine Storage Tank						77
EQT046 TO-1 - Dehy Thermal Oxidizer (TO-01)	13	1407	1.5		42	1600
EQT047 TO-2 - Dehy Thermal Oxidizer (TO-02)	21	3966	1.5		42	1500
EQT048 V-1 - Gas Release Events		5133.3				77
EQT049 GC-8 - Gas-Fired Turbine (EG-800)		3359	188947	8.46	40	919
EQT050 GC-9 - Gas-Fired Turbine (EG-900)		3359	188947	8.46	40	919
EQT053 GG-6 - Emergency Generator Engine (EG-041)			1		21.5	800
FUG001 F-2 - Piping Component Fugitives						
GRP003 GC-CAP - Compressor Engine Cap						
GRP005 Egan Gas Storage Facility						

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP005	283.48	100 hp	1430 - Natural Gas Comp (Turbines)
	284.85	100 hp	1450 - Recip. Nat Gas Comp (20,000 to 50,000 H.P.)